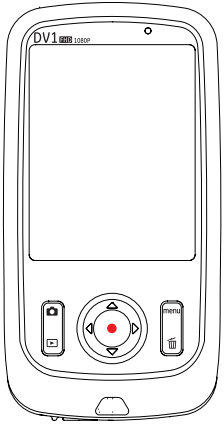
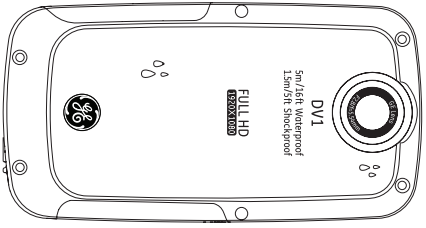
# User Manual

## Digital Camcorder

## DV 1



# CONTENTS


CONTENTS ..... 2

PRECAUTIONS ..... 6

Preface ..... 6

Copyright ..... 6

Trademarks ..... 6

About this manual ..... 6

Symbols used in this manual ..... 6

WARNING ..... 7

SAFETY PRECAUTIONS ..... 9

Video camera notes ..... 9

Memory card notes ..... 9

LCD screen notes ..... 10

Please read the following important information carefully before using this product ..... 10

WATER & DUST PROOF PRECAUTIONS ..... 11

Water & Dust Proof ..... 11

Precautions Before Using ..... 11

Precautions When Using ..... 11

Maintenance Precautions After Using ..... 12

GETTING STARTED ..... 13

Accessories ..... 13

Each Component Name ..... 14
Charge and Insert SD Card ..... 15
Charging ..... 15
Insert SD/SDHC Card ..... 16
Turning On/Off ..... 17
Setting Language and Date/Time ..... 18
Set Display Language ..... 19
Set Date and Time ..... 20

BASIC OPERATION ..... 21

Recording Movies ..... 21
Zoom Function ..... 21
White Balance ..... 22
Shooting ..... 22
LCD Screen Display in Different Modes ..... 23
Shooting Screen ..... 23
Video Recording ..... 24
Playback ..... 25
DISP ..... 26

PLAYBACK ..... 27

Preview Photos and Videos ..... 27
Video ..... 27

Zoom in Photos....29
Screen Display in the Playback Mode....30
Delete Photos and Videos....31

MENU SETUP....32

Photo Setup....32
Quality....33
Exposure Metering....33
HDR....34
Continuous Shot....34
Date Imprint....35
Movie Setup....36
Movie Resolution....37
Exposure Metering Modes....37
HDR....38
General Setup....39
Beep Setup....40
LCD Brightness....40
World Time....41
Power Saver....41
firmware Version....42
Format Memory....42
Reset....43

Copy to Card....43
Playback Setup....44
Delete....45
Slide Show....47
Red Eye Removal....48
CONNECTION....49
Connecting to TV Output with HDMI....49
Connecting to a PC via USB....50
APPENDICES....52
Specifications: DV1....52
Error Messages....55
Troubleshooting....57

# PRECAUTIONS

## Preface

Thank you for purchasing this GE digital video camera. Please read this manual carefully and keep it in a safe place for future reference.

### Copyright

Copyright 2010 General Imaging Company All rights reserved.

No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form, by any means, without the prior written permission of General Imaging Company.

### Trademarks

All trademarks mentioned in this manual are used for identification purposes only and are properties of their respective owners.

### About this manual

This manual provides you with instructions on how to use your GE digital video camera. Every effort has been made to ensure that the contents of this manual are accurate, however GIC (General Imaging Copmnay) reserves the right to make changes without notice.

### Symbols used in this manual

Throughout this manual, the following symbols are used to help you locate information quickly and easily:

Indicates important information.

Indicates precautions to be taken while operating the video camera.

## WARNING

Do not expose the video camera battery pack or other accessories to rain or humidity to to reduce the risk of fire hazard or electric shock fire hazard or electric shock.

### For customers in the U.S.A.

**Tested To Comply With FCC Standards**

**FOR HOME OR OFFICE USE**

### FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

### For customers in Europe

"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" marked video cameras are intended for sales in Europe.

This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the European countries. Please do not throw the equipment into the trash. Please electronically recycle responsibly.

## Declaration of Conformity

Model Name: DV1

Trade Name: GE

Responsible Party: General Imaging Co.

Address: 1411 W. 190th Street, Suite 550, Gardena, CA 90248, USA.

Telephone Number: +1-800-730-6597

(Outside U.S. & Canada: +1-310-755-6857)

Power supply should conform to CCC standard:

EMC： EN 55022:1998/A1:2000/A2:2003 Class B
EN 55024:1998/A1:2001/A2:2003
EN 61000-3-2:2000/A1:2001
EN 61000-3-3:1995/A1:2001

following the provision of the EMC Directive (89/336/EEC, 2004/108/EEC)

## SAFETY PRECAUTIONS

### Video camera notes:

Do not store or use the video camera in the following types of locations:

- In direct sunlight for a long period of time or high temperature (beyond 40°C);
- In environments with high magnetic fields;
- In very humid and dusty places;

Doing so may shorten the life of the digital video camera or allow foreign materials to enter which could damage the internal components.

If the video camera will not be used for a long period of time, we suggest you download photos and remove the memory card.

If the video camera is taken from a relatively cool environment (lower than 40°C/104F), and placed in a warmer or more humid atmosphere, condensation may occur within the appliance. We suggest you wait for it to warm to room temperature before turning on the video camera.

General Imaging is not responsible for any loss of data.

### Memory card notes:

When using a new memory card, or a memory card has been initialized by a PC, you might have to format the card if the camera is not reading it. However, please back up any data on the card as the formatting will delete all data on the card.

To edit image data, copy the image data to PC first.

Do not change or delete the folder names or file names in the memory card from your PC, as this may make it unusable and/or unreadable.

Only remove and insert a memory card when the camera is off as data loss and/or corruption may occur otherwise.

Do not turn the camera off when the firmware is being updated or there may be data or picture loss and/or corruption.

The memory card can be inserted only one way into the camera.

## LCD screen notes:

Due to current LCD manufacturing technology, you may see a few light or dark pixels on your LCD. This is normal.

These light or dark pixels will not affect the quality of the photo or video image.

If the LCD screen is damaged, take particular care with the liquid crystal in the screen. If any of the following situations arise, take the recommended immediate action indicated below:

- If liquid crystal comes in contact with your skin, wash thoroughly with soap and running water.
- If liquid crystal gets into your eye, flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed, flush your mouth thoroughly with water and try to induce vomiting. Then seek medical assistance immediately.

## Please read the following important information carefully before using the product:

- Do not disassemble or attempt to service the video camera yourself.
- Do not drop or knock the video camera. Improper handling may damage the product as it will void the warranty.
- Turn off the video camera before inserting or removing the memory card.
- Do not touch the video camera lens.
- Do not expose the video camera lens to direct sunlight for extended periods.
- Do not use abrasive cleansers, alcohol-based, or solvent based cleaners to clean the video camera body. To clean, wipe the video camera lens with a professional lens cleaning cloth and special cleaning agent for cameras and electronics.

## Water & Dust Proof Precautions

### Water & Dust Proof

- The video camera meets JIS/IEC waterproof grade 8 (IPX8) and JIS/IEC dustproof grade 6 (IPX6).
- The accessories included with the video camera are not for use in wet conditions.

### Precautions Before Using

- Please make sure that the SD cover and HDMI/USB interface cover (hereinafter referred to as “interface cover”) are locked securely.
- The rubber mating surfaces on the covers and doors should be clean and free of foreign matter to insure a tight seal.
- Unit with damaged waterproofing rubber should not be used in wet conditions.
- Don’t use the video camera in a geothermal spring.
- When using the video camera in water, a wrist strap should be used.

### Precautions When Using

- Don’t use the video camera below 5 meters (approximately 15 feet) underwater.
- Don’t use the video camera under water for more than 2 hours.
- The camera should not be dropped into water. Avoid jumping or diving into water with the camera as the SD cover or interface cover may open on impact.
- Don’t open the SD cover or interface cover underwater .

## Maintenance Precautions After Using

- Wipe the video camera with a clean, dry lint free cloth.
- When the SD cover or interface cover is opened, there may be water drops on the inside of the SD cover or interface cover and on the contact surface of video camera body; make sure to dry it out.
- After using the video camera in the water or near sand, mud or other foreign materials, please wash it with clean water (don't open the SD card cover or interface cover when cleaning). After cleaning, wipe out the video camera with a clean and dry lint free cloth.
- To help ensure the camera's waterproof ability, wipe off any dust, sand or other foreign materials from the rubber gaskets and corresponding slot areas.
- Don't use any chemical agents to clean the camera. Do not use silicone grease on the rubber.

Damaged waterproofing rubber gaskets with cracks or scatches will allow the entrance of water into the camera. Contact customer service for service.

# GETTING STARTED

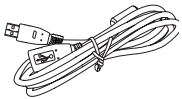
## Accessories

Your package should contain the video camera model you purchased along with the items below. If anything is missing or appears to be damaged, please contact our customer service department.

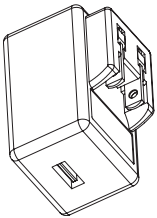
Warranty Card

Quick Guide

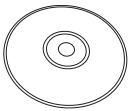
Wrist Strap



USB Cable

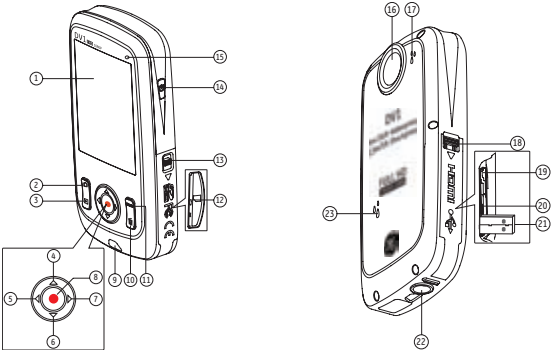


Power Adapter



CD-ROM

## Each Component Name



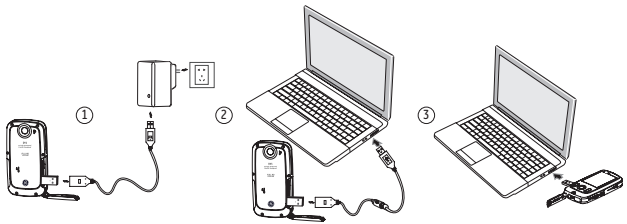

| | | | |
|---|---|---|---|
| 1 | LCD Screen | 12 | SD Card Slot |
| 2 | Shooting Button | 13 | SD Card Slot Switch |
| 3 | Playback Button | 14 | Power Button |
| 4 | Up Button / Zoom in Button | 15 | Status Indicator |
| 5 | Left Button / Disp | 16 | Lens |
| 6 | Down Button / Zoom out Button | 17 | Microphone |
| 7 | Right Button / White Balance | 18 | USB/HDMI Card Slot Switch |
| 8 | OK Button / Record Button | 19 | USB lock |
| 9 | Wrist Strap Hole | 20 | HDMI Interface |
| 10 | Delete Button | 21 | USB Jack |
| 11 | Menu Button | 22 | Tripod Socket |
| | | 23 | Speaker |

## Charge and Insert SD Card

### Charge:

This video camera has an internal battery. You can use the following three methods to charge the video camera:

1. Use the USB cable to connect the video camera with the adapter see figure (1);
2. Use the USB cable to connect the video camera to the PC see figure (2);
3. Connect the USB connector to PC directly see figure (3).

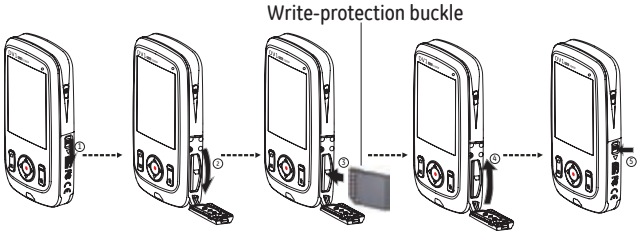



It should charge for about 4 hours for the first time, and the status indicator will turn green when the battery is fully charged.

If you use method (1) to charge, the charging time is 3 hours. If you use method (2) or (3) to charge, the charging time is 5 hours.

## Insert SD/SDHC Card

1. Open SD Card Cover according to ①,②;
2. Insert SD Card according to ③;
3. Close SD Card Cover according to ④, ⑤.




After opening the buckle on the SD Card Cover according to the arrow direction shown in the figure ①, SD Card Cover will open automatically. To remove SD card, gently press it to pop it out.

Optional SD/SDHC cards are not included in the accessories and must be purchased separately.

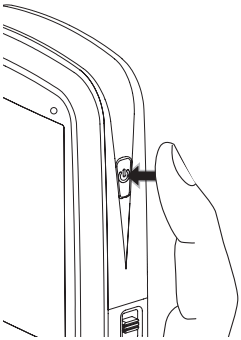
When selecting Full HD size (1920X1080, 1440X1080) to record video, please use High Speed Card (above Class 4).

When taking video, if "Memory card accessing is slow" on the LCD screen, please select High Speed Card or format this card, then take video.

## Turning On/Off

Press the Power button to turn the video camera on/off.

When the power is off, press the Power button for to turn the video camera on.
When the power supply is on, press the Power button for to turn the video camera off.



If there is no response on the video camera, press and hold the power button and the button for at least two seconds to reset and power off.

## Setting Language and Date/Time

Language, Date / Time setting menu will appear when turning the video camera on for the first time.

Use the following procedures to set the camera to your preferences:

1. Press **Power** button to turn the video camera on.
2. Press ▲▼◀ ▶ button to select the settings.
3. Press ● button to confirm the settings.

## Set Display Language

1. Press menu button to enter the setting menu.
2. Press ◀ ▶ to select menu;
   Press ▲▼ to select **Language** option.

3. Press button to enter the setting interface.
4. Press ▲▼ to select language of choice. Then press button to return to the menu; or press menu button to return to the shooting screen.

## Set Date and Time

1. Press menu button.
2. Press ◀ ▶ to select menu;
   Press ▲▼ to select **Date / Time** option.
3. Press ● button to enter the Set Date/Time program.
4. Press ▲▼ to select function option or select ,
   press ● button to return to the menu;
   Press ◀ ▶ to select the value;
   Or press menu button to return to the shooting screen.
5. Press ● button to store the value, press menu button to return to the shooting screen.

Date format is: M-D-Y;
Time format is: 24 hour format

When selecting the option, the screen will display the icons with the following Two colors:

White: Can't be selected

Orange: Current selection

# BASIC OPERATION

## Movie Recording

This function can take movies.

1. Press **Power** button to turn the video camera on.
2. Press ● button to begin taking video.
3. Press ● button to end the video shooting.

### Zoom Function

Press ▲▼ button to zoom in or zoom out:

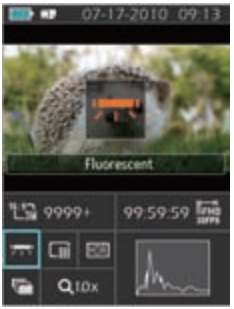
- ▲ : Digital Zoom in
- ▼ : Digital Zoom out

In the process of digital zoom changing, digital zoom is displayed as an orange icon 🔍.

## White Balance

With White Balance, users can adjust the color temperature under different light sources to ensure correct color.

Press ▶ button to scroll through the White Balance options, available options include:

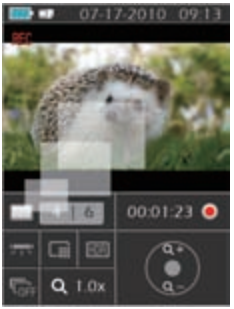



- White Balance: Auto
- White Balance: Daylight
- White Balance: Cloudy
- White Balance: Fluorescent
- White Balance: Incandescent
- White Balance: Underwater

## Shooting While Recording

You can take photos while recording video.

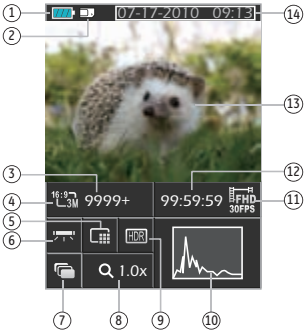
During the process of recording video, press 📷 button to take photos.



## LCD Screen Display in Different Modes

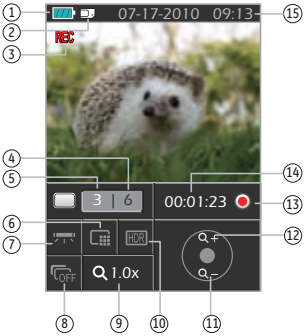
Shooting Screen:

1. Battery status indicator
2. Memory card
3. Remaining number of pictures
4. image resolution
5. Image Quality
6. White Balance
7. Continuous Shot
8. WT Ratio
9. HDR
10. Histogram
11. Video Quality
12. Remaining video time
13. Face Detection
14. Shooting date and time



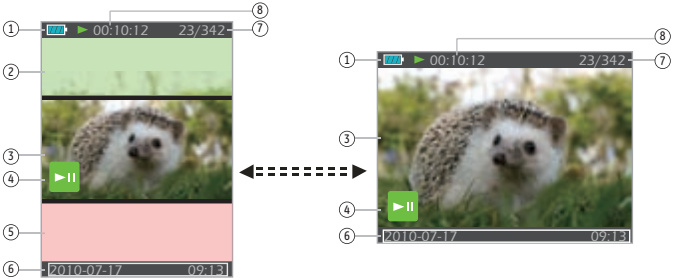
## Video Recording:

1. Battery status indicator
2. Memory card
3. During recording
4. The number of available photos
5. The number of photos have been taken
6. Image Quality
7. White Balance
8. Continuous Shot
9. WT Ratio
10. HDR
11. Zoom out
12. Zoom in
13. Video Recording Indicator
14. Video shooting time (during shooting)
15. Shooting date and time




Using this facility, the number of shots is limited by the file size of the single frames.

Vertical Horizontal

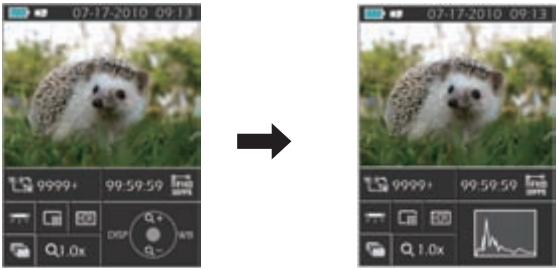



## Playback:

1. Battery status indicator
2. Previous photo/video
3. Selected film /image
4. Video file reminder display
5. Next photo/video
6. Shooting date and time
7. Ranking order/number of the current photos
8. Film length

## DISP

In shooting mode press ◀ / DISP button, you can switch the screen between the following two screens:




Display One

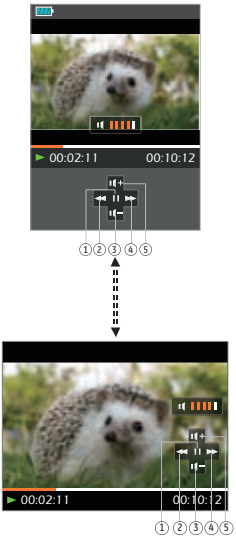
Display Two

# PLAYBACK

## Preview Photos and Videos

You can view photos and videos either vertically or horizontally when in playback mode.

1. Press ▶ button.
2. Vertical: Press ▲▼ button to select the previous /next photo /video;
   Horizontal: Press ◀ ▶ button to select the previous /next photo /video.
3. Play the selected video, press ● button to enter the playback mode.




### Video:

In the playback mode, each button description is shown as follows:

| | | | |
|---|---|---|---|
| 1 | Pause | 4 | Fast Forward |
| 2 | Fast Backward | 5 | Increase Volume |
| 3 | Decrease Volume | | |

When playing videos, the operation guides will appear on the screen. Press ● button to play or pause. When viewing in horizontal mode, the operation guides and time access will not automatically display. Press ▲▼◀▶ to display them).

While the video is playing, press ▶ button to fast forward the video, or press ◀ to fast reverse it.

In the Pause screen, press ◀ button to switch to the previous frame photo; press ▶ button to switch to the next frame photo.

When playing in the video mode, press ▶ button to return to Playback screen.

In the Pause screen, press ▼ button to return to **Playback screen**.

In the **Playback mode**, only the first frame is displayed on the video.

Fast Forward display: 2x / 4x / 8x / 16x
Fast Backward display: 2x / 4x / 8x / 16x.

When the video camera is turned off, press ▶ button for 2 sec to turn it on, and enter the Playback mode.

## Zoom in Photos

In the Playback mode, images can be magnified up to 4x by using the function button.

1. Press ▶ button to return to the Playback mode.
2. Vertical: Press ▲▼ button to select a photo; Horizontal: Press ◀ ▶ button to select a photo.
3. Press ● button to magnify photos up to 4x See note below.
4. Press ▲▼◀▶ button to move the position of display area.
5. Press ● button again to return to the Playback screen (the original size).

Zooming facility can only be used on still images. It is not possible on video playback.

the maximum zooming capacity is 4x in this mode.

## Screen Display in the Playback Mode

Pressing ▶ button to display the following modes (the picture is displayed in horizontal position):

**Playback screen:**

When shooting, press ▶ button to return to the Playback mode; press 📷 button to return to the Shooting screen.

**Thumbnail:**

When in the playback mode, press ▶ button, 3x3 thumbnails will display on the screen, pressing ▲▼◀▶ button to select the photo or video to be viewed.

**Date Folder:**

When in Thumbnail mode, press ▶ button, the thumbnails will be sorted per shooting date; or press ▶ button to return to the Playback screen.

**Date Folder Thumbnail:**

With the Date Folder is displayed on the screen, press ● button to enter the Date Folder Thumbnails (only photos in the Date Folder are displayed); or press ● again to return to the Playback screen.

When 3X3 Thumbnail and Date Folder Thumbnail display on the screen, pressing ▶ button can enter date folder screen.

## Delete Photos and Videos

In the Playback mode (Playback screen / Thumbnail / Date Folder / Date Folder Thumbnail) mode, pressing 🗑 button can delete the current selected photo/ video.

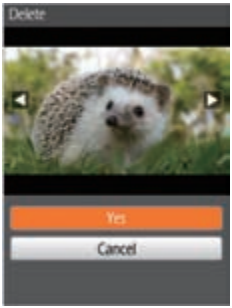
1. Press ▶ button to return to the Playback mode (Playback screen / Thumbnail / Date Folder / Date Folder Thumbnail).

2. Press ▲▼◀▶ button to select the photo/ video to be deleted.

3. Press 🗑 button to display the information to be deleted on the screen.

4. Press ▲▼ button to select Yes or Cancel: Yes: Deletes the current selected photo/ video; Cancel: Returns to the previous screen.

5. Press ● button to save setting and return to the Playback mode.



Erased photos/videos cannot be recovered.

# MENU SETUP

## Photo Setup

**Mode:**

Press menu button to enter Setup menu.

1. Select menu.
2. Press ▲▼ button to select the option in the **Photo Setup** menu or press menu button to return to the Shooting screen.

3. Press the button to enter the options menu once you have selected an option within Photo Setup.
4. Press ▲▼ to select option.
5. Press button to select and return to the **Photo Setup** menu; or press ◀ button to return to the menu; or press menu button to return to the Shooting screen.

## Quality

The **image quality** menu adjusts the compression ratio of the images. Higher quality settings give better photos, but will take up more memory space.

There are three options for Image Quality:

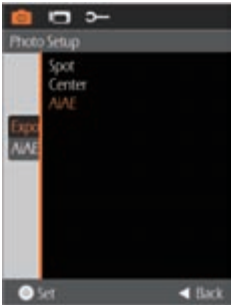
- Quality: Best
- Quality: Fine
- Quality: Normal

## Exposure Metering

This specifies the area of the picture that the camera uses to correctly expose the picture.

There are three options for Exposure Metering:

- Exposure Metering: Spot - this uses one point in the frame, usually the center of the frame, to determine correct exposure.
- Exposure Metering: Center - this uses the center of the frame to determine correct exposure.
- Exposure Metering: AiAE - this uses multiple areas of the frame to "intelligently" determine correct exposure.

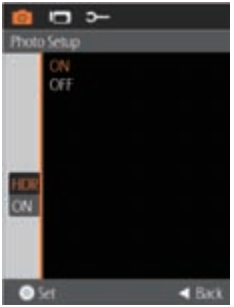


## HDR

HDR (High Dynamic Range) automatically takes multiple exposures of the same picture and overlaps them to lighten dark areas and darken light areas, thereby correcting exposing the picture.

There are two options for HDR:

- HDR: ON
- HDR: OFF

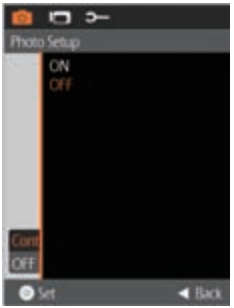



## Continuous Shot

Continuously hold down button to perform continuous shooting; to stop, please release button.

The **Continuous Shot** has two options:

- Continuous Shot: ON
- Continuous Shot: OFF



## Date Imprint

Saves the date and time data with the picture.

There are three options for Imprint Date:

- Imprint Date: Date / Time
- Imprint Date: Date
- Imprint Date: OFF

## Movie Setup

**Mode:**

Press menu button to enter Setup menu.

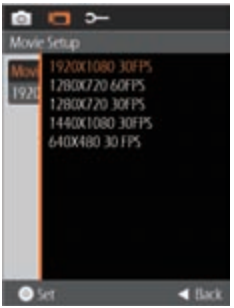
1. Press ◀ ▶ button to select menu.

2. Press ▲▼ button to select the option in the **Movie Setup** menu or press menu button to return to the Shooting screen.

3. Press button to enter the setting interface of corresponding options in the **Movie Setup** menu.

4. Press ▲▼ to select value.

5. Press button to save value and return to the **Movie Setup** menu; or press ◀ button to return to the menu; or press menu button to return to the Shooting screen.




Motion Recording can't be recorded with no SD/SDHC card inserted.

## Movie Resolution

Size setup refers to movie Solution ratio expressed in pixels.

The Movie Resolution has five options:

- 1920X1080: 30FPS
- 1280x720: 60FPS
- 1280x720: 30FPS
- 1440X1080: 30FPS
- 640x480: 30FPS

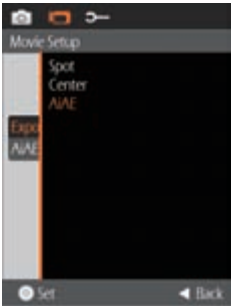
HD recording time limited to below 29min.

## Exposure Metering Modes

Exposure Metering is used to setup an area for the exposure to be obtained.

There are three options for Exposure Metering:

- Exposure Metering: Spot
- Exposure Metering: Center
- Exposure Metering: AiAE

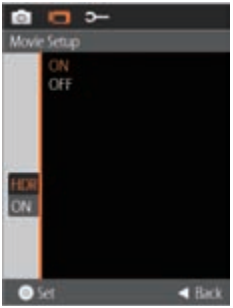


## HDR

HDR (High Dynamic Range) takes several exposes and overlaps them. This lightens darker areas of the photo and darkens lighter areas, thereby correctly exposing the picture.

There are two options for HDR:

- HDR: ON
- HDR: OFF



## General Setup

**Mode:**

Press menu button to enter Setup menu.

1. Press ◀ ▶ button to select menu.
2. Press ▲▼ button to select the options in the **General Setup** menu.

3. Press button to enter the menu of corresponding options in the **General Setup** menu.
4. Press ▲▼ to select function option or select , press button to save selection and return to the menu; press ◀ ▶ to select the menu option; or press menu button to return to the shooting screen.
5. Press button to save the menu option, press menu button to return to the Shooting screen.

## Beep Setup

**Use Beep Setup** to adjust the volume of beep when buttons are pressed.

There are two options in **Beep Setup**:

- ON
- OFF

## LCD Brightness

**Use LCD Brightness** to adjust the brightness of your screen.

In the **LCD Brightness** screen, press ◀ ▶ button to select auto or different brightness ratio, press ● button to save the menu option. Press menu button to return to the Shooting screen.

## World Time

When overseas, adjust the **World Time** setting to the time zone of the city nearest you.

There are two options in **World Time**:

- Location
- Travel Target

## Power Saver

Use the **Power Saver** function to prolong battery life between charges.

The **Power Saver** function has two options:

- ON
- OFF

When power saving function is turned on, the screen will automatically turn off after one minute and the video camera will automatically turn off after three minutes.

## Firmware Version

Use this option to view the current **Firmware version** of the video camera.

There are two options in **Firmware Version**:

- FW Update (can update the version with the new version on SD card)
- Cancel

To check if there is a newer Firmware version available, please go to: www.ge.com/digitalcameras. Firmware versions are available under 'Support'.

The firmware update can't be completed if the battery is not sufficiently charged.

## Format Memory

Use **Format Memory** function will delete all data in the storage card and internal memory.

There are two options in **Format Memory**:

- Yes
- No

When there is no memory storage card in the camera, Format Memory will format the internal memory. If there is a memory card in the camera, Format Memory will only format the memory storage card.

## Reset

Use the **Reset** function to set the video camera to factory default values.

The **Reset** has two options:

- Yes
- No

## Copy to Card

Use **Copy to Card** function to copy the files stored in the internal memory card to storage card.

The **Copy to Storage Card** has two options:

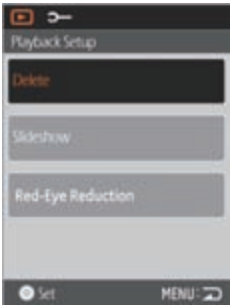
- Yes
- No

# Playback Setup

**Mode:** ▶

In Playback mode, Press menu button to enter Setup menu.

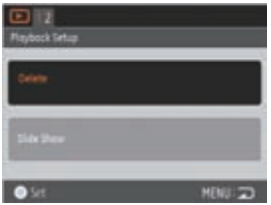
1. Select ▶ menu.
2. Press ▲▼ button to select the options in the Setup menu.




The **Playback Setup** has three options:

- Delete
- Slide Show
- Red-Eye Reduction

In the Playback mode, press menu button, Note this function will only display in the horizontal mode.

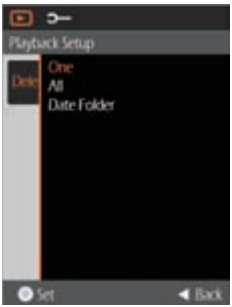


## Delete

Using this function will delete the photos/videos stored in the internal memory or storage card.

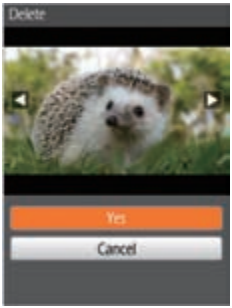
The **Delete** has three options:

- One
- All
- Date Folder

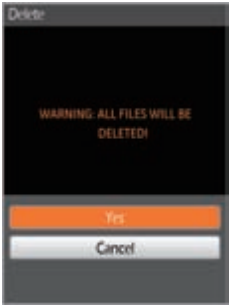



**Delete One:**

1. Press ▲▼ button to select Delete option, press ● button to enter the setup interface.
2. Select One options, press ● button to save the setting value and enter function selection interface.
3. Pres ▲▼ button to select Yes or Cancel to return to the menu.
4. Press ● button to save the menu option and return to the Playback Setup menu, press menu button to return to the Shooting screen.

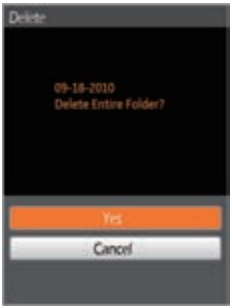


**Delete all:**




1. Press ▲▼ button to select Delete option, press ● button to enter the setup interface.
2. Select all options, press ● button to save the setting value and enter function selection interface.
3. Pres ▲▼ button to select Yes or Cancel to return to the menu.
4. Press ● button to save the menu option and return to the Playback Setup menu, press menu button to return to the Shooting screen.

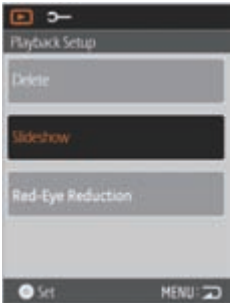
**Delete Date Folder:**




1. Press ▲▼ button to select Delete option, press ● button to enter the setup interface.
2. Select Date Folder option, press ● button to enter Date Folder selection interface.
3. Press ▲▼ button to select the Date Folder to be deleted, press ● / 🗑 button to display the deleted information on the screen.
4. Pres ▲▼ button to select Yes or Cancel to return to the menu. Press ● button to save the menu option and return to the Playback Setup menu, press menu button to return to the Shooting screen.

## Slide Show

This function displays images in sequence at regular intervals (internal memory card or storage).




1. Select **Slide Show** option, press ● button to save the setting value to enter the function selection interface.
2. Press ▲▼ button to select Start or Cancel to return the menu.
3. Press ● button to start playing.

Only Horizontal mode is used for slide playing.

4. Press ● button again to stop playing.
5. Press ▲▼ button to select:
   - ▶ Continue to Start
   - ✕ Return to the Playback screen

The default playing interval time of slide is 3 seconds.

## Red Eye Removal

Use Red Eye Removal function to remove red-eyes in your photos.

1. Press ▲▼ button to select **Red Eye Removal** option, press ● button to enter the setup interface.
2. Press ▲▼ button to remove or cancel to return the menu; press ◀ ▶ button to select a photo.
3. After pressing ● button, the original file will be overwritten.

Red eye reduction does not work for video files.

If there is no red eyes in the image, press ● button after selecting “Remove”, such prompt will appear on the screen: red eye is not detected!

# CONNECTION

## Connecting to TV Output with HDMI

Photos and videos can be viewed on a TV using the HDMI interface. By connecting to your TV with an HDMI cable (sold separately) the camera will automatically enter the Playback Screen. If the connection is unsuccessful an error message will display.

If 1080i is supported, the images will display on the TV when connection is successful. If 1080i is not supported, the highest resolution supported by the TV will be selected automatically. The video camera will turn off automatically after pulling HDMI cable out.

Enter the Playback screen:

Press ◀ ▶ button to select the previous/next photo/video:

- : Photo
- : Video

Press ▼ button to start /stop slide playing.

When the video camera is connected with TV successfully, the playback screen will display on the TV.

When video ( ) file appears on the Playback screen, pressing ● button will start/stop playing video.

When playing video, the functions of ▲▼◀▶ and ● are the same as playing video in the video camera (refer to P27).

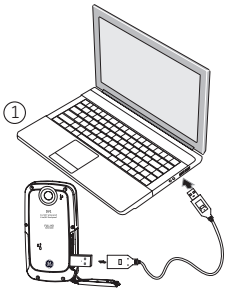
When playing video, press ● button to pause first, then press ▼ button to return to the Single Playback screen.

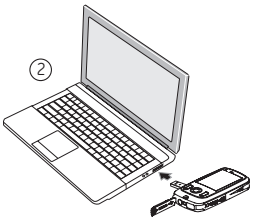
## Connecting to a PC with USB

Copy photos and videos in the video camera to a PC according to the following steps:

1. Open USB/HDMI port cover.
2. Push buckle to pop-up USB interface.
3. Use USB cable to connect the video camera with a PC (1) or connect USB connector with a PC directly (2).

This video camera supports (Windows 2000, Windows XP, Windows Vista, Windows 7).



# APPENDICES

## Specifications: DV1

Design and specifications are subject to change without notice.

| | | |
|---|---|---|
| Sensor | | 5.08 Megapixels [1/2.5" (COMS)] |
| Lens | Focal Length = | 5.5 mm |
| | F number | 2.8 |
| | Construction | 4P |
| Anti-Handshake | | Electronic Image Stabilization |
| Digital Zoom | | 4x digital zoom |
| Number of Recording Pixels | Still Image | 5MP(4:3), 3MP(16:9) |
| | Movie | 1920x1080 pixels: 30fps;<br>1280x720 pixels: 60fps/30fps;<br>1440x1080 pixels: 30fps;<br>640x480 pixels: 30fps |
| Image Compression | | Fine, Standard, Normal |
| File Format | Still Image | Exif 2.2 (JPEG) |
| | Movie | Image Compression: MPEG-4 AVC/H.264,<br>Audio: AAC |

| | |
|---|---|
| Detection Function | Face Detection |
| Shooting Mode | Auto |
| Red-eye Reduction | Supported |
| Waterproof | Up to 5 meter or 16 feet |
| Shock Resistant Function | Up to 1.5 meter or 5 feet |
| LCD Display | 2.5 inch LTPS (low-temperature polycrystalline silicon) TFT color LCD (230,400 pixels) |
| ISO Sensitivity | Auto (100~800) |
| Exposure Metering Modes | Spot, Center-Weight, AiAE, Face detection |
| Playback Modes | Single Photo, Index, Date Photo, Slide Show, Movie |
| | Zoom (4x), Audio, Histogram Display |
| | Fast Forward / Fast Rewind 2x/4x/8x/16x per frame |

| | |
|---|---|
| White Balance Control | Auto, Daylight, Cloudy, Fluorescent , Fluorescent CWF, Underwater |
| Continuous Shooting | Approx.7.3 fps (Large / Fine Mode) |
| Recording Media | Internal Memory: 27MB |
| | SD/SDHC memory card (up to 32GB) |
| Other Features | Support Exif Print function, support multiple languages |
| Jacks | USB 2.0 OUT (Integrated Proprietary Connector) HDMI Interface |
| Power | Internal rechargeable lithium ion battery GB-50 |
| Shooting Capability (Battery Performance) | Approx. 260 shots (based on CIPA standards) |
| | Approx. 80 minutes for video (@1080/30fps) |
| Operation Environment | Temperature: 0~40°C, Humidity: 0~90% |
| Dimensions (W x H x D) | 105mm x 55mm x 20.1mm |
| Mass | Approx. 145 g (5.1 oz) |

## Error Messages

| Messages | Explanation |
|---|---|
| Warning! Battery exhausted | • Battery is depleted, connect the camera to a power source and wait until fully charged to resume using |
| No picture | • There are no pictures or videos in the memory card or in the internal memory |
| Pull USB out | • Remove the USB cable or connector after ensuring you have safely disconnected the hardware on your system |
| Connection failed | • Camera is not properly connecting to TV or computer. USB mode may be incorrect or USB port may be damaged. Please try again |
| File can't be recognized | • Camera can't recognize such file format |
| Warning! Don't power off when upgrading! | • Please don't power the video camera off when upgrading software |
| Software update failed | • Update for software that controls camera was not successfully installed<br>• Software version is incorrect. Please download latest version |

| Messages | Explanation |
|---|---|
| Internal memory card full | • The internal memory is full and cannot store any new files. Copy files to PC and delete from camera or insert a new memory card |
| Memory card full | • Memory card is full and cannot store any new files. Copy files to PC and delete from card or insert a new memory card |
| Write protection of memory card | • Memory card lock is switched to protection mode. Take out the memory card and unlock it |
| File can't be edited | • The file has already been edited and can't be edited again |
| Memory card error | • The memory card is not recognized or failed. Replace with a new memory card or format this card again |
| The memory card is not formatted | • Format the memory card as described on page 42 |
| Battery exhausted, can't update FW | • The firmware cannot be updated without enough power. Charge the battery fully before attempting to update FW |

## Troubleshooting

| Problem | Possible causes | Solution |
|---|---|---|
| Video camera won't turn on | • Battery low | • Charge battery |
| Video camera turns off suddenly while in operation | • Battery is discharged | • Charge battery |
| Photo is blurred | • Camera is not steady when pictures are taken | • Suggest using a tripod |
| Can't take photos | • Internal memory or memory card is full<br>• The memory card is not formatted<br>• Still in Playback mode | • Insert a new memory card, or copy files to PC and delete from memory card<br>• Format the memory card<br>• Return to the shooting mode |
| Can't record video | • No memory card or memory card is full<br>• Still in Playback mode | • Insert a new memory card, or copy files to PC and delete from memory card<br>• Return to the shooting mode |

http://www.ge.com/digitalcameras

© 2010 General Imaging Company

Printed in China